

**Table D-G-1  
Greenhouse Gases (GHG) RBLC Search - Circuit Breakers  
Invenergy, LLC - Allegheny County Energy Center Project**

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	03/09/2016 &nbsp;ACT	Circuit breakers		0		Approximately 17 circuit breakers.	Leak prevention. Must have manufacturer-guaranteed leak rate no more than 0.5% per year. Must be equipped with leakage detection systems and alarms.	0.5	% LEAK PER YEAR							
*FL-0363	DANNA BEACH ENERGY CENTER	12/04/2017 &nbsp;ACT	Circuit breakers (two)		0		Sulfur hexafluoride (SF6) circuit breakers, leak rate no more than 0.5% per year	Certified leak rate < 0.5% per year	0.5	% LEAK PER YEAR							
*PA-0310	CPV FAIRVIEW ENERGY CENTER	09/02/2016 &nbsp;ACT	Circuit breakers		0		(8) sulfur hexafluoride insulated circuit breakers and are to be state-of-the-art sealed enclosed-pressure circuit breakers equipped with leak detection equipment that : 1) alerts the operator when 10% of the SF6 by weight has escaped for any breaker and 2) alerts the operator when a leak exceeds 5000 ppm from any breaker.	State-of-the-art sealed enclosed-pressure circuit breakers with leak detection	1500	PPM							
TX-0824	JACKSON COUNTY GENERATING FACILITY	06/30/2017 &nbsp;ACT	Sulfur hexafluoride (SF6) insulated Electrical Equipment		0		The facility will consist of Four SF6 insulated circuit breakers.	The use of circuit breakers with totally enclosed insulation systems equipped with a low pressure alarm and low pressure lockout is BACT	34.4	T/YR							
TX-0824	JACKSON COUNTY GENERATING FACILITY	06/30/2017 &nbsp;ACT	Natural Gas Pignones		0			weekly checks for leaks using audio, visual, and olfactory (AVO) sensing for natural gas leaks	693.3	T/YR							
*VA-0328	C&GT, LLC	04/26/2018 &nbsp;ACT	Circuit Breakers - 6		0.5	%	Quantity 6 Annual leakage rate	Enclosed-pressure design with low-pressure detection system (with alarm).	0								
*VA-0328	C&GT, LLC	04/26/2018 &nbsp;ACT	Equipment Leaks from Natural Gas Components		0		Work practice requirements	Best management practices to prevent, detect and repair leaks of natural gas from the piping components.	0								
CA-1212	PALMDALE HYBRID POWER PROJECT	10/18/2011	ENCLOSED PRESSURE SF6 CIRCUIT BREAKERS		0		0.5% BY WT ANNUAL LEAKAGE RATE 10% BY WT LEAK DETECTION SYSTEM		9.56	T/YR	12-MONTH ROLLING TOTAL	0			0		
CA-1223	PIO PICO ENERGY CENTER	11/19/2012	CIRCUIT BREAKERS		0		3 switchyard and 2 generator breakers containing SF6.	INSTALL, OPERATE, AND MAINTAIN ENCLOSED-PRESSURE SF6 CIRCUIT BREAKERS WITH A MAXIMUM ANNUAL LEAKAGE RATE OF 0.5% BY WEIGHT	40.2	T/YR	TONS PER CALENDAR YEAR	0			0		
*IA-0107	MARSHALLTOWN GENERATING STATION	4/14/2014	circuit breakers		0		SF6 losses from circuit breakers		0.5	PERCENT LOSS	CALENDAR YEAR	0			0		
*IN-0158	ST. JOSEPH ENRGY CENTER, LLC	12/3/2012	ELECTRICAL CIRCUIT BREAKERS		0		THE SIX (6) BREAKER, IDENTIFIED AS EMISSIONS UNIT SF6, CONTAIN SULFUR HEXAFLUORIDE (SF6)	ALTERNATIVE TECHNOLOGY FULLY ENCLOSED CIRCUIT BREAKERS WITH LEAK DETECTION	0.0009	TONS	12 CONSECUTIVE MONTH PERIOD	0.5	% DESIGN LEAK RATE		0		
*IN-0166	INDIANA GASIFICATION, LLC	6/27/2012	ELECTRIC CIRCUIT BREAKER		0		CONTAINING SULFUR HEXAFLUORIDE (SF6) IDENTIFIED AS EMISSIONS UNIT FUG-SF6, PERMITTED IN 2012, WITH FUGITIVE GHG EMISSIONS CONTROLLED BY FULL ENCLOSURE.	USE OF FULLY ENCLOSED PRESSURIZED SF6 CIRCUIT BREAKERS WITH LEAK DETECTION (LOW PRESSURE ALARM)	0			0			0		
*MD-0041	CPV ST. CHARLES	4/23/2014	CIRCUIT BREAKERS		0		GHG BACT FOR THE CIRCUIT BREAKERS SHALL BE INSTALLATION OF STATE-OF-THE-ART CIRCUIT BREAKERS THAT ARE DESIGNED TO MEET ANSI C37.013 OR EQUIVALENT TO DETECT AND MINIMIZE SF6 LEAKS. LEAKS DETECTED SHALL BE REPAIRED WITHIN FIVE DAYS OF DISCOVERY; REPAIRS DOCUMENTED, AND ASSOCIATED REPAIR RECORDS MAINTAINED		0			0			0		
*MD-0042	WILDCAT POINT GENERATION FACILITY	4/8/2014	CIRCUIT BREAKERS		0			INSTALLATION OF STATE-OF-THE-ART CIRCUIT BREAKERS THAT ARE DESIGNED TO MEET ANSI C37.013 OR EQUIVALENT TO DETECT AND MINIMIZE SF6 LEAKS	0			0			0		
*MD-0042	WILDCAT POINT GENERATION FACILITY	4/8/2014	CIRCUIT BREAKERS		0			GHG BACT FOR THE CIRCUIT BREAKERS SHALL BE INSTALLATION OF STATE-OF-THE-ART CIRCUIT BREAKERS THAT ARE DESIGNED TO MEET ANSI C37.013 OR EQUIVALENT TO DETECT AND MINIMIZE SF6 LEAKS	0			0			0		
TX-0612	THOMAS C. FERGUSON POWER PLANT	11/10/2011	SF6 Insulated Electric Equipment_SF6-FUG		0		Fugitive emissions, SF6, from insulated electric equipment(circuit breakers)		131	T/YR	365-DAY ROLLING AVERAGE (USE AS CO2E)	0.006	LB/H		0		
TX-0632	DEER PARK ENERGY CENTER LLC	11/29/2012	SF6-FUG		0		SF6 Insulated Electrical Equipment (i.e., circuit breakers) consisting of one new 72 lb SF6 insulated generator circuit breaker.		0.0002	T/YR		0			0		
TX-0633	CHANNEL ENERGY ENERGY CENTER, LLC	11/29/2012	SF6-FUG	Natural Gas	0		Because the emissions from this unit are calculated to be over 99.9% carbon dioxide (CO2), the remaining pollutant emissions (CH4 and N2O) are not presented in the table.		0.0002	T/YR	365-DAY ROLLING AVERAGE	0			0		
*TX-0748	FGE POWER, FGE TEXAS PROJECT	4/28/2014	SF6 Fugitive Emission Sources		0				0			0			0		
*TX-0749	GOLDEN SPREAD ELECTRIC COOPERATIVE, ANTELOPE STATION	6/2/2014	Fugitive Emissions from SF6 Circuit Breakers		0		The circuit breakers associated with the proposed units will be insulated with SF6. The capacity of the circuit breakers associated with the proposed plant expansion is currently estimated to 2920 lbs SF6.		0		WORK PRACTICE	0			0		

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*TX-0749	GOLDEN SPREAD ELECTRIC COOPERATIVE, ANTELOPE STATION	6/2/2014	Fugitive Emissions from SF6 Circuit Breakers		0		The circuit breakers associated with the proposed units will be insulated with SF6. The capacity of the circuit breakers associated with the proposed plant expansion is currently estimated to be 2920 lbs SF6.		0		WORK PRACTICE	0			0		
*TX-0753	GUADALUPE GENERATING STATION	12/2/2014	Fugitive SF6 Circuit Breaker Emissions		0		The circuit breakers associated with the proposed units will be insulated with SF6. The capacity of the circuit breakers associated with the proposed plant expansion is currently estimated to be two (2) breakers of 690 lb SF6 each.		0			0			0		
*TX-0757	INDECK WHARTON ENERGY CENTER	5/12/2014	Fugitive SF6 Circuit Breaker Emissions		0		The circuit breakers associated with the proposed units will be insulated with SF6. The capacity of the circuit breakers associated with the proposed plant expansion is currently estimated to be three (3) breakers with 24.2 lbs SF6 each, and eleven (11) HV power circuit breakers with 550 lbs SF6 each.		0			0			0		
*TX-0758	ECTOR COUNTY ENERGY CENTER	8/1/2014	Fugitive SF6 Circuit Breaker Emissions		0				0			0			0		
VA-0319	GATEWAY COGENERATION 1, LLC - SMART WATER PROJECT	8/27/2012	ELECTRIC CIRCUIT BREAKERS, (4)		60	LB/SF6	Enclosed pressure circuit breaker.	Enclosed pressure circuit breaker.	28.6	T/YR	12 MO AVG	0			0		